

KWAG-O6800 Series MIMO 867 + 300Mbps Outdoor Bridge 5 / 2.4 GHz

Formosa KWAG-O6800 Series Wireless MIMO Bridge provides reliable and predictable Wireless Bridge Connection.

With these wireless Base Stations you can:

Augment throughput for high-bandwidth wireless applications

Protect your investment in wireless networking

Increase network reliability for high bandwidth applications

IEEE 802.11 a/b/g/n/ac Standard

Data rates of 867 (5GHz) + 300 (2.4GHz) Mbps

Multiple input, multiple output technology for enhanced reliability

2.4 / 5 GHz concurrent radio module

FEATURES

2x2 MU-MIMO OFDM Technology

Support 20/40/80 MHz channel bandwidth

Data transmission rate up to 867 Mbps for 80 MHz bandwidth

Reliable data security AES 128-bit.

DFS (Dynamic Frequency Selection) Channel supported

Auto Channel link selection.

Support SNMP V2 management, SSH, NTP, and Telnet.

Support QoS bandwidth control

MAC Access Control (Allow / Deny)

DHCP Server/Client protocol

Built-in Web-based management and firmware upgrade

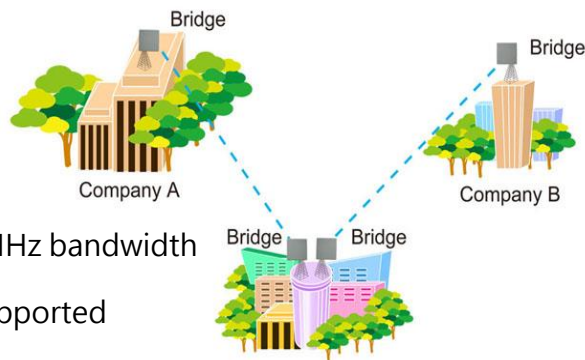
802.3af/at Power over Ethernet supply

Support Lightning Protection

FCC / CE / NCC Compliant

KWAG-O6800-15 for 0-3Km Bridge/Repeater Application

KWAG-O6800-I for 3Km+ Bridge/Repeater Application



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WiVIEW 2, Managed Tool

No	Status	Model Name	IP Address	Location	Routing	Description
1	●	KWA-O1850-I	192.168.3.1		192.168.3.2	WIFDD
2	●	KWA-O1850-I	192.168.3.2		192.168.3.1	WIFDD
3	●	KWA-O1850-I	192.168.3.3		192.168.3.4	WIFDD
4	●	KWA-O1850-I	192.168.3.4		192.168.3.3	WIFDD
5	●	KWA-O8800-I	192.168.3.5		192.168.3.6	WITDM
6	●	KWA-O8800-I	192.168.3.6		192.168.3.5	WITDM
7	●	KWG-O6020-I	192.168.3.7		192.168.3.10	BGN_AP
8	●	KWA-O6020-I	192.168.3.8		192.168.3.9	Bridge
9	●	KWA-O6020-I	192.168.3.9		192.168.3.8	Bridge
10	●	KWA-O670R	192.168.3.10		192.168.3.7	BGN_Repeater



Bridge Location on the MAP

Specification	
HARDWARE	
LAN	1 x 10/100/1000 BaseT RJ-45 with Auto-MDIX
Power Over Ethernet (POE)	Yes (802.3at/af)
Enclosure	Metal (IP68)
Default Button	Yes
LED	Power / LAN / Wireless 2.4GHz / Wireless 5GHz
Surge Protection	Surge Voltage: 6KV (10/700uS) Discharge Current: 5KA (8/20uS) Response Time: <5ns Standard: IEC64000-4-5
Power Consumption	9W
Ground	Yes
RADIO	
Frequency	2.4 / 5 GHz
Standard	IEEE 802.11 a/b/g/n/ac
Wireless	OFDM
Real-time Link Status	Yes
FEATURE	
Operating Mode	AP, AP WDS, Client WDS (Bridge)
Dual Stream Support	Yes
Channel Bandwidth	20 / 40 / 80 MHz
Data Bandwidth Control	Yes
Output Power Management	Yes
Auto Channel Selection	Yes
Fast Roaming	Yes (802.11r/k)
WMM	Yes
DHCP	Server / Client
VAP	8 (2.4GHz) + 8 (5GHz)
VLAN / Un-tag ID	Yes
Spanning Tree	Yes (802.1d)
Configuration Backup	Yes (Backup / Restore)
Fragmentation Setting	Yes (256-2,346)
Beacon Interval Setting	Yes (20-1,000)
DTIM Interval Setting	Yes (1-255)

SECURITY	
MAC Control	Yes (Allow / Deny)
WEP Encryption	64, 128, 152-bit
WPA / WPA2	AES 128 bit
IEEE 802.1x / RADIUS	Yes
Wireless Isolation	Yes
Hidden SSID	Yes
Firewall	Yes
VPN	VPN Pass-through (IPsec, L2TP, PPTP)
MANAGEMENT	
Web Base Management	Yes
NMS	Yes (WiVIEW 2)
SNMP	V1, V2C, V3
IGMP	V1, V2, V3
Support Time Server	Yes
Support Log Server	Yes
PHYSICAL	
Operating Temperature	-30 ~ 80C
Operating Humidity	0 ~ 90% RH

Model	Frequency MHz	Antenna dBi	Output Power dBm	Sensitivity dBm	Dimension mm	Weight Kg
KWAG-O6800	2.4 / 5 GHz	2 N Jack	24 dBm @ 2.4GHz 21 dBm @ 5GHz	-97 dBm @ 2.4GHz -90 dBm @ 5GHz	259 x 250 x 75	1.8
KWAG-O6800-15	2.4 / 5 GHz	5GHz 2x2 13~15 dBi	24 dBm @ 2.4GHz 21 dBm @ 5GHz	-97 dBm @ 2.4GHz -90 dBm @ 5GHz	259 x 250 x 75	2.1
KWAG-O6800-I	2.4 / 5 GHz	5GHz 2x2 20 dBi	24 dBm @ 2.4GHz 21 dBm @ 5GHz	-97 dBm @ 2.4GHz -90 dBm @ 5GHz	380 x 380 x 90	3.0



KWAG-O6800
KWAG-O6800-15



KWAG-O6800-I



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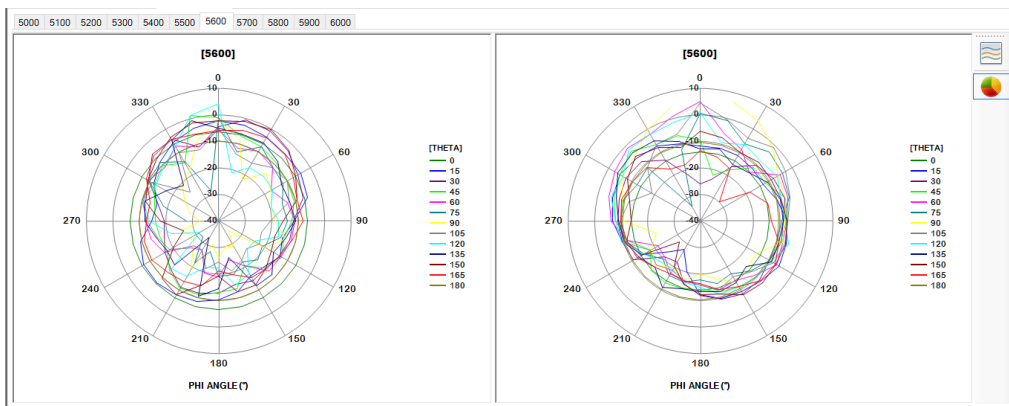
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Spec of Build-in Antenna – KWAG-O6800-15

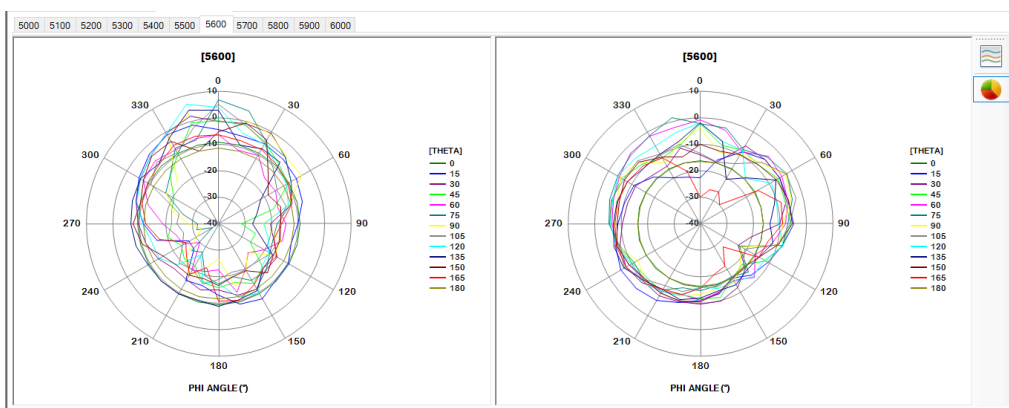
Frequency : 5000-6000 MHz
 Gain : 13~15dBi
 VSWR : <2.0
 Beamwidth /H : 45°
 Beamwidth /V : 45°
 Polarization : Dual Linear; V&H
 Impedance : 50 ohms



Port 1



Port 2

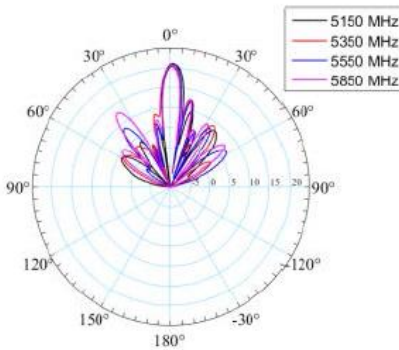


Spec of Build-in Antenna – KWAG-O6800-I

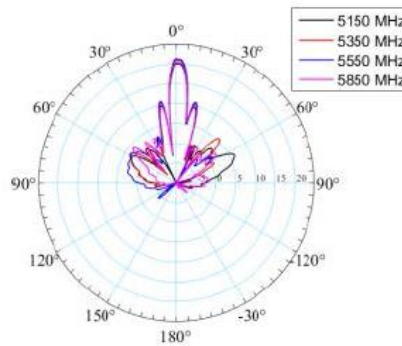
Frequency : 5150-5850 MHz
 Gain : 20dBi
 VSWR : <2.0
 Beamwidth /H : 9°
 Beamwidth /V : 9°
 Polarization : Dual Linear; V&H
 Impedance : 50 ohms



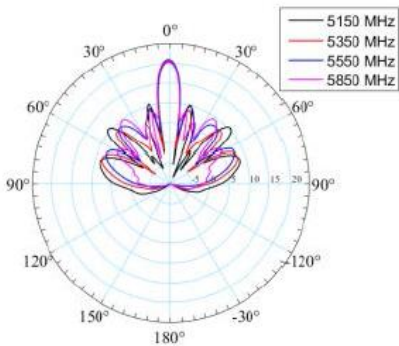
Radiation Patterns



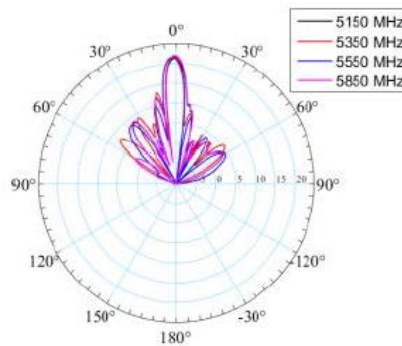
V-pol. E-Plane



H-pol. E-Plane



V-pol. H-Plane



H-pol. H-Plane